

**Your Ref.: 10404/21**  
**Our Ref.: 547314**

1

**English Translation of**  
**Japanese Patent Application No. 2004-201430**  
**(filed on July 8, 2004)**

## 5 [CLAIMS]

1. A high strength polyethylene multifilament according to claim 1,  
wherein said multifilament has a crystal size of monoclinic crystal of not  
larger than 9 nm.
- 10 2. The high strength polyethylene multifilament according to claim 1,  
wherein said multifilament has a ratio of the crystal sizes derived from the  
(200) and (020) diffractions of an orthorhombic crystal of from 0.8 inclusive  
to 1.2 inclusive.
- 15 3. The high strength polyethylene multifilament according to claim 1,  
wherein said multifilament has a stress Raman shift factor of not smaller  
than  $-5.0 \text{ cm}^{-1}/(\text{cN/dTex})$ .
4. The high strength polyethylene multifilament according to claim 1,  
20 wherein said multifilament has an average strength of not lower than 20  
cN/dTex.
5. The high strength polyethylene multifilament according to claim 1,  
wherein a knot strength retention of monofilaments constituting the high  
25 strength multifilament is not lower than 40%.
6. The high strength polyethylene multifilament according to claim 1,  
wherein CV which indicates a variation in the strengths of monofilaments  
constituting the high strength multifilament is not higher than 25%.

**Your Ref.: 10404/21**  
**Our Ref.: 547314**

2

7. The high strength polyethylene multifilament according to claim 1, wherein said multifilament has an elongation at break of from 2.5% inclusive to 6.0% inclusive.
- 5 8. The high strength polyethylene multifilament according to claim 1, wherein each of filaments constituting the multifilament has a fineness of not higher than 10 dTex.
9. The high strength polyethylene multifilament according to claim 1,
- 10 wherein the melting point of filaments is not lower than 145°C.